

# ENGINEERING & MANUFACTURING

The engineering and manufacturing sector is all about making things work. It's a huge field, so you'll specialise in a particular area, but there are many different options available. You need to be good at following instructions and working as part of a team, but engineers in particular often need to use their own initiative to solve problems.

The UK is a world leader in engineering construction, second only to the USA.

There are more than 138,000 employees working in the science, engineering, manufacturing and technology industries in the UK.

The building services engineering sector carries out £20 billion of work each year and at any one time is training 18,000 apprentices.

## GCSEs

- English
- Maths
- Biology
- Chemistry
- Computer Science
- Physics
- Business Studies
- Product Design
- Food Technology
- Textiles
- Resistant Materials
- Statistics

## A-LEVELS

- English
- Maths
- Biology
- Chemistry
- Computer Science
- Physics
- Business Studies
- Product Design
- Food Technology
- Textiles
- Resistant Materials
- Statistics

## T-LEVELS

- Design, surveying and planning for construction
- Onsite Construction
- Design and development for engineering and manufacturing
- Engineering, manufacturing, processing and control
- Maintenance, installation and repair for engineering and manufacturing

## APPRENTICESHIPS

AVAILABLE IN

- Advanced Engineering
- Aerospace Engineering
- Aerospace Manufacturing
- Broadcast Technology
- Building Energy Management Systems
- Building Services and Project Management
- Composite Engineering
- Electrotechnical
- Engineering Construction
- Combined Manufacturing
- Mineral Processing

## COLLEGE COURSES

- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Construction
- Fabrication and Welding
- Applied Science
- Music Production
- Environmental Management
- Land-Based Operations
- Environmental Engineering
- Art and Design
- Creative Media - Graphic Design
- Fashion and Textiles
- Motor Vehicle Technology
- Computer Games Development

## UNIVERSITY COURSES

- BEng (Hons) in Civil and Environmental Engineering
- BA(Hons) in Creative Sound Design
- BEng (Hons) in Agricultural Management
- BSc (Hons) in Biomedical Engineering
- BSc (Hons) in Electronic Engineering
- BEng (Hons) in Automotive Engineering
- BEng (Hons) in Chemical Engineering
- BEng (Hons) in Mechanical Engineering
- BSc (Hons) in Software Engineering
- BEng (Hons) in Aerospace Engineering
- BSc (Hons) in Engineering
- BSc (Hons) in Product Design

## JOB TITLES

- Acoustics consultant
- Aerospace engineer
- Assembler
- Auto electrician
- Automotive engineer
- Building services engineer
- CAD technician
- Car manufacturing worker
- Chemical engineer
- Chemical plant process operator
- Civil engineer
- Clinical engineer
- Construction plant mechanic
- Design and development engineer
- Electrical engineer
- Energy engineer
- Engineering construction craftworker
- Engineering craft machinist
- Engineering maintenance technician
- Food manufacturing inspector
- Food packaging operative
- Footwear manufacturing operative
- Gas service technician
- Land surveyor
- Live sound engineer
- Marine engineer
- Materials engineer
- Measurement and control engineer
- Mechanical engineer
- Motor mechanic
- Motorsport engineer
- Nuclear engineer
- Offshore drilling worker
- Oil and gas operations manager
- Packaging technologist
- Paper technologist
- Physicist
- Plumber
- Product designer
- Production worker (manufacturing)
- Rail engineering technician
- Rail track maintenance worker
- Recycled metals worker
- Refrigeration and air-conditioning installer
- Research and development manager
- Satellite engineer
- Scrap metal worker
- Sewing machinist
- Sheet metal worker
- Signmaker
- Steel fixer
- Structural engineer



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